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Exam. Code : 206703 Subject Code : 5197

M.Sc. Computer Science 3rd Semester

MCS-303 : DATA MINING & WAREHOUSING

Time Allowed—3 Hours] [Maximum Marks—100

- Note :— Attempt any *five* questions. All questions carry equal marks.
- (a) What is data warehouse ? Explain the data warehouse architecture.
 - (b) Briefly explain the basic dimensional modeling techniques. 10
- 2. (a) Explain OLTP and OLAP. Discuss the differences between them. 10
- (b) Draw and explain 4-dimensional data cube with an example. 10
- (a) Discuss various problems with Data Warehousing. Explain mapping the Data Warehouse to multiprocessor architecture.
 - (b) How is prediction different from classification ?

(c) Explain cluster analysis.

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(Contd.)

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- 4. Explain MOLAP and ROLAP. Explain the following OLAP operations in the multidimensional data model with the diagram and an example :
 - (i) Dice for
 - (ii) Slice for
 - (iii) Drill down
 - (iv) Roll up
 - (v) Pivot.
- 5. (a) Is it necessary that every small or big company should have a data warehouse ? Justify your answer. 10
 - (b) Explain the concept of :
 - (i) Metadata Repository
 - (ii) Data Warehouse Utilities. $2 \times 5 = 10$
- 6. (a) Explain various steps involved in Data Mining Process. 10
 - (b) Discuss major classifications of Data Mining Systems. 10
- 7. What is meant by Data Mining Query Language ? How Data specification, Knowledge specification, Hierarchy specification and Pattern Presentation specification can be performed in the language ?
- 8. (a) Write short notes on :
 - (i) Predictive Modelling
 - (ii) Link Analysis.

2×5=10

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(b) Discuss any two applications of Data Mining.

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